

WHAT IS CLAIMED IS:

1. A multi-color writing ink, comprising:
a mixture of a first ink composition comprising a first solvent and a
5 first colorant and a second ink composition comprising a second solvent and a second
colorant, wherein the first and second ink compositions are immiscible with each
other.
2. The multi-color ink according to claim 1, wherein the first
10 solvent is substantially insoluble in the second solvent.
3. The multi-color ink according to claim 1, wherein the first and
second colorants are selected from the group consisting of dyes and surface-modified
pigments.
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4. The multi-color ink according to claim 1, wherein the first
colorant is substantially insoluble in the second solvent.
5. The multi-color ink according to claim 1, wherein the second
20 colorant is substantially insoluble in the first solvent.
6. The multi-color ink according to claim 1, wherein a density of
the first solvent and a density of the second solvent differ by less than about 0.35
grams per cubic centimeter (g/cm^3).
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7. The multi-color ink according to claim 1, wherein a ratio of the
second solvent to the first solvent is at least about one part to about 25 parts.

8. The multi-color ink according to claim 1, wherein the first solvent is an aqueous solvent and the second solvent is an organic solvent.

5 9. The multi-color ink according to claim 8, wherein the first solvent is water and the second solvent is dibasic ester solvent.

10 10. The multi-color ink according to claim 8, wherein the first solvent is water and the second solvent is selected from the group consisting of benzene and xylenes.

11. The multi-color ink according to claim 8, wherein the first colorant is selected from the group consisting of anionic dyes and cationic dyes.

15 12. The multi-color ink according to claim 8, wherein the first colorant is selected from the group consisting of basic dyes, acid dyes, direct dyes, and reactive dyes.

20 13. The multi-color ink according to claim 8, wherein the second colorant is selected from the group consisting of disperse dyes, mordant dyes, oxidation dyes, reactive dyes, solvent dyes, sulfur dyes, and vat dyes.

25 14. The multi-color ink according to claim 1, wherein the first solvent is a water-soluble solvent and the second solvent is an organic solvent.

15. The multi-color ink according to claim 14, wherein the first solvent is methanol and the second solvent is selected from the group consisting of heptane, hexanes, and cyclohexane.

5 16. The multi-color ink according to claim 14, wherein the first colorant is selected from the group consisting of anionic dyes and cationic dyes.

17. The multi-color ink according to claim 14, wherein the second colorant is selected from the group consisting of disperse dyes, mordant dyes, 10 oxidation dyes, reactive dyes, solvent dyes, sulfur dyes, and vat dyes.

18. The multi-color ink according to claim 1, wherein the first solvent is a polar organic solvent and the second solvent is a non-polar organic solvent.

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19. The multi-color ink according to claim 18, wherein the first solvent is selected from the group consisting of acetonitrile, dimethylsulfoxide, dimethylformamide, and trichloroethylene, and the second solvent is selected from the group consisting of heptane, cyclohexane, hexanes, and xylenes.

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20. The multi-color ink according to claim 1, wherein the first solvent is a polar aprotic solvent and the second solvent is a non-polar organic solvent.

25 21. The multi-color ink according to claim 1, wherein the first solvent is a polar organic solvent and the second solvent is a polar organic solvent.

22. The multi-color ink according to claim 21, wherein the first solvent is dimethylformamide and the second solvent is diisopropylether.

23. A multi-color marker, comprising:

5 an ink reservoir containing at least a mixture of a first ink composition comprising a first solvent and a first colorant and a second ink composition comprising a second solvent and a second colorant, and a nib in fluid communication with the ink reservoir, wherein the first and second ink compositions are immiscible with each other.

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24. The multi-color marker according to claim 23, wherein the first solvent is substantially insoluble in the second solvent.

25. The multi-color marker according to claim 23, wherein the first
15 and second colorants are selected from the group consisting of dyes and surface-modified pigments.

26. The multi-color ink marker according to claim 23, wherein the first colorant is substantially insoluble in the second solvent.

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27. The multi-color marker according to claim 23, wherein the second colorant is substantially insoluble in the first solvent.

28. The multi-color marker according to claim 23, wherein a
25 density of the first solvent and a density of the second solvent differ by less than about 0.35 grams per cubic centimeter (g/cm^3).

29. The multi-color marker according to claim 23, wherein a ratio of the second solvent to the first solvent is at least about one part to about 25 parts.

30. The multi-color marker according to claim 23, wherein the first solvent is an aqueous solvent and the second solvent is an organic solvent.

31. The multi-color marker according to claim 30, wherein the first colorant is selected from the group consisting of anionic dyes and cationic dyes.

32. The multi-color marker according to claim 30, wherein the second colorant is selected from the group consisting of disperse dyes, mordant dyes, oxidation dyes, reactive dyes, solvent dyes, sulfur dyes, and vat dyes.

33. The multi-color marker according to claim 23, wherein the first solvent is a water-soluble solvent and the second solvent is an organic solvent.

34. The multi-color marker according to claim 23, wherein the first solvent is a polar organic solvent and the second solvent is a non-polar organic solvent.

35. The multi-color marker according to claim 23, wherein the first solvent is a polar aprotic solvent and the second solvent is a non-polar organic solvent.

36. The multi-color marker according to claim 23, wherein the first solvent is a polar organic solvent and the second solvent is a polar organic solvent.